

Applicant: Middelhoek et al.
Application No.: 10/568,113
Filing Date: February 13, 2006
Docket No.: 903-181 PCT/US

A. Amendments to the Title:

Please amend the title as follows:

~~Method and Apparatus for Measuring a Magnetic Field By Using a Hall-Sensor~~

Method and Apparatus for Measuring an Entity of a Magnetic Field By Using a Hall
Plate, an Excitation Signal and a Detection Signal.

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B. Amendments to the Specification:

Please amend the Abstract as follows:

Method and apparatus for measuring an entity of a magnetic field using a Hall sensor which is provided with at least one Hall plate (~~101, 102, 103, 104~~) which has a group of two pairs of terminals (A1, A2, B1, B2) located at a distance from one another, for supplying an excitation signal supplied from a source to one and a pair of terminals (A1, A2, B1, B2) for reading and a detection signal, which forms a representation of the entity, which is tapped off from the other pair of terminals by a processing circuit. The source is a voltage source of which an impedance is negligible for use of the sensor, and the processing circuit has a negligible input impedance for tapping off the detection signal as a short-circuit current. an electric voltage being supplied to the Hall plate as excitation signal from a source (105) of negligible impedance, and an electric current, which represents the measured entity, being tapped off from the Hall plate as detection signal by a pick-up (108, 109, 110) of negligible impedance.